

Take 5 for Safety

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Conduct of Operations

- A set of strategies or practices (attributes) for mission success and safe operation of large DOE facilities
- C-AD must negotiate a new Conduct of Operations agreement with BHSO this spring
- Over 600 attributes are in the agreement
- C-AD facilities covered include:
 - RHIC, AGS, Booster, NSRL, Linac, EBIS, ERL, ATF, ATF II, TVDG, BLIP, STAR, PHENIX, RRPL/TPL

Examples of C of O Attributes

- Supervisors and Operators keep each other informed of facility status changes, abnormalities, or difficulties
- Operators are appropriately qualified for expected hazards and know protection practices to maintain personnel exposure as low as reasonably achievable and within facility controls for radiation, chemicals, electromagnetic fields, toxic materials, and other personnel hazards
- Entry to control areas is granted by designated persons whose identity is known to persons desiring entry

Examples of Implementation

Operations Training Records, Courses, Presentations, and Scheduling

Operator Training Records:

Sweep Training (OPM 4.56):

- MCR Operators
- CAS Technicians
- LINAC Operators
- NSRL Liason Personnel
- RF Technicians

Gate Security Access Training Qualifications

RCT Gate Security Access Training Qualifications for NSRL

Injector and RHIC Operations Class Attendance Records (including practical exam completion)

Booster Workbook Progress Records

AGS/Booster Power System Tours and Procedures

Cryogenics Orientation Training

Booster Workbook Reservation Calendar:

Workbook Reservation Calendar

Operator Training Seminars:

Operator Training Seminars by Topic

Intro Course Links:

Controls System Tour

Using PET - Course Outline (.doc) (.pdf)

Using GPM - Course Outline (.doc) (.pdf)

Using Log View - Course Outline (.doc) (.pdf)

Injector Operations Course Materials:

Practical Exam Metrics

General Knowledge

Introduction to Instrumentation

Booster Injection Practical

Booster Acceleration Practical

NSRL Extraction

NSRL Species and Energy Change

AGS Injection/Booster Extraction Practical

AGS Acceleration Practical

AGS Extraction Practical

Booster-to-AGS RF Modes of Operation

Tuning AGS Extraction and ATR

RHIC Operations Course Materials:

RHIC Intro 1: Overview

RHIC Intro 2: AGS Extraction, ATR Transport

RHIC Intro 3: RHIC Injection

RHIC Intro 4: Ramping

RHIC Intro 5: Store

Operations Procedures Manual Courses:

LOTO Qualification Using Power Supply Verification Method

Access to Primary Beam Enclosures (OPM 4.1)

Operation of PASS (OPM 4.44)

If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match.

The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.

Hard copies of all signed, official, C-A Operating Procedures are available by contacting the

ESSHQ Procedures Coordinator, Bldg. 911A

C-A OPERATIONS PROCEDURES MANUAL

2.3 Activities in Control Rooms

Text Pages 2 through 5

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: _____ *Signature with Date on File*
 Collider-Accelerator Department Chairman Date

P. Ingrassia

C-A-OPM 2.3

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Revision 06
 November 4, 20103

Photo of the Week: Not What is Meant by “Re-cycling”

- Small cooler in a data center that someone elevated using an obsolete and abandoned network switch in order to drain the condensate
- Footprints on the top of the cooler indicated it was “repurposed” as a ladder



